

1652

RAW SEQUENCE LISTING DATE: 12/01/2000
 PATENT APPLICATION: US/09/544,525 TIME: 08:16:31

Input Set : A:\408.app
 Output Set: N:\CRF3\12012000\I544525.raw

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4 <110> APPLICANT: Luche, Ralf M.
 5 Wei, Bo
 8 <120> TITLE OF INVENTION: DSP-3 DUAL-SPECIFICITY PHOSPHATASE
 11 <130> FILE REFERENCE: 200125.408
 13 <140> CURRENT APPLICATION NUMBER: US/09/544,525
 14 <141> CURRENT FILING DATE: 2000-04-06
 16 <160> NUMBER OF SEQ ID NOS: 18
 18 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 875
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Homo sapiens
 25 <400> SEQUENCE: 1
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 27 gctagcgttc gccctcagcc accatgggga atgggatgaa caagatccctg cccggcctgt 120
 28 acatcggcaa cttcaaagat gccagagacy cggacaattt gagcaagaac aagggtgacac 180
 29 atattctgtc tgtccacgat agtccaggcc tatgttggag gacaagacat ttcaaagaaa 240
 30 gtattaaatt cattcacgag tgcgggctcc gcggtgagag ctgccttgta cactgcctgg 300
 31 cgggggtctc caggagcgtg acaactggtga tcgcatacat catgaccgtc actgaactttg 360
 32 gctgggagga tgccctgcac accgtgcgtg ccgggagatc ctgtgccaac cccaacgtgg 420
 33 gcttcacgag acagctccag gagtcttgaaga agcatgaggt ccatcagtat cggcagtggc 480
 34 tgaaggaaga atatggagag agccctttgc aggatgcaga agaagccaaa aacattcttg 540
 35 ccgctccagg aattctgaag ttctgggcct ttctcagaag actgtaatgt acctgaagtt 600
 36 tctgaaatat tgcaaacccg cagagtttaq gctggtgctg ccaaaaagaa aagcaacata 660
 37 gagtttaagt atccagtagt gattttgtaa cttgtttttc atttgaagct gaatatatac 720
 38 gtatgcatgt ttatgttgag aactaaggat attcttttag aagagaaaat attttccct 780
 39 tatccccact gctgtggagg ttctgtacc tcgcttgat gccctgtaagg atcccgagg 840
 40 ccttgccgca ctgccttctg ggtggccttg cgctc 875
 42 <210> SEQ ID NO: 2
 43 <211> LENGTH: 167
 44 <212> TYPE: PRT
 45 <213> ORGANISM: Homo sapiens
 47 <400> SEQUENCE: 2
 48 Met Gly Asn Gly Met Asn Lys Ile Leu Pro Gly Leu Tyr Ile Gly Asn
 49 1 5 10 15
 50 Phe Lys Asp Ala Arg Asp Ala Glu Leu Ser Lys Asn Lys Val Thr
 51 20 25 30
 52 His Ile Leu Ser Val His Asp Ser Pro Gly Leu Cys Trp Arg Thr Arg
 53 35 40 45
 54 His Phe Lys Glu Ser Ile Lys Phe Ile His Glu Cys Arg Leu Arg Gly
 55 50 55 60
 56 Glu Ser Cys Leu Val His Cys Leu Ala Gly Val Ser Arg Ser Val Thr
 57 65 70 75 80
 58 Leu Val Ile Ala Tyr Ile Met Thr Val Thr Asp Phe Gly Trp Glu Asp
 59 85 90 95
 60 Ala Leu His Thr Val Arg Ala Gly Arg Ser Cys Ala Asn Pro Asn Val
 61 100 105 110

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62 Gly Phe Gln Arg Gln Leu Gln Glu Phe Glu Lys His Glu Val His Gln
63      115      120      125
64 Tyr Arg Gln Trp Leu Lys Glu Glu Tyr Gly Glu Ser Pro Leu Gln Asp
65      130      135      140
66 Ala Glu Glu Ala Lys Asn Ile Leu Ala Ala Pro Gly Ile Leu Lys Phe
67 145      150      155      160
68 Trp Ala Phe Leu Arg Arg Leu
69      165
71 <210> SEQ ID NO: 3
72 <211> LENGTH: 10
73 <212> TYPE: PRT
74 <213> ORGANISM: Homo sapien
76 <400> SEQUENCE: 3
77 Val His Cys Leu Ala Gly Val Ser Arg Ser
78 1      5      10
80 <210> SEQ ID NO: 4
81 <211> LENGTH: 23
82 <212> TYPE: PRT
83 <213> ORGANISM: Homo sapien
85 <400> SEQUENCE: 4
86 Gly Arg Val Leu Val His Cys Gln Ala Gly Ile Ser Arg Ser Gly Thr
87 1      5      10      15
88 Asn Ile Leu Ala Tyr Leu Met
89      20
91 <210> SEQ ID NO: 5
92 <211> LENGTH: 24
93 <212> TYPE: DNA
94 <213> ORGANISM: Artificial Sequence
96 <220> FEATURE:
97 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
98      DSP-3
100 <400> SEQUENCE: 5
101 gacctcatgc ttctcaaact cctg      24
103 <210> SEQ ID NO: 6
104 <211> LENGTH: 21
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
110      DSP-3
112 <400> SEQUENCE: 6
113 cgatcaccag tgtcacgctc c      21
115 <210> SEQ ID NO: 7
116 <211> LENGTH: 26
117 <212> TYPE: DNA
118 <213> ORGANISM: Artificial Sequence
120 <220> FEATURE:
121 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
122      DSP-3

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124 <400> SEQUENCE: 7
125 cagaatatgt gtcaccttgt tcttgc
127 <210> SEQ ID NO: 8
128 <211> LENGTH: 26
129 <212> TYPE: DNA
130 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
134 DSP-3
136 <400> SEQUENCE: 8
137 gcaagaacaa ggtgacacat attctg
139 <210> SEQ ID NO: 9
140 <211> LENGTH: 28
141 <212> TYPE: DNA
142 <213> ORGANISM: Artificial Sequence
144 <220> FEATURE:
145 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
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148 <400> SEQUENCE: 9
149 gggaaatggga tgaacaagat cctqcccc
151 <210> SEQ ID NO: 10
152 <211> LENGTH: 37
153 <212> TYPE: DNA
154 <213> ORGANISM: Artificial Sequence
156 <220> FEATURE:
157 <223> OTHER INFORMATION: Primer used to obtain full length cDNA encoding
158 DSP-3
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163 <210> SEQ ID NO: 11
164 <211> LENGTH: 170
165 <212> TYPE: PRT
166 <213> ORGANISM: Homo sapiens
168 <400> SEQUENCE: 11
169 Ser Asp Leu Asp Arg Asp Pro Asn Ser Ala Thr Asp Ser Asp Gly Ser
170 1 5 10 15
171 Pro Leu Ser Asn Ser Gln Pro Ser Phe Pro Val Glu Ile Leu Pro Phe
172 20 25 30
173 Leu Tyr Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Glu
174 35 40 45
175 Glu Phe Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn
176 50 55 60
177 Leu Phe Glu Asn Ala Gly Glu Phe Lys Tyr Lys Gln Ile Pro Ile Ser
178 65 70 75 80
179 Asp His Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser
180 85 90 95
181 Phe Ile Asp Glu Ala Arg Gly Lys Asn Cys Gly Val Leu Val His Cys
182 100 105 110
183 Leu Ala Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met

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184          115          120          125
185 Gln Lys Leu Asn Leu Ser Met Asn Asp Ala Tyr Asp Ile Val Lys Met
186          130          135          140
187 Lys Lys Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu
188 145          150          155          160
189 Asp Phe Glu Arg Thr Leu Gly Leu Ser Ser
190          165          170
192 <210> SEQ ID NO: 12
193 <211> LENGTH: 168
194 <212> TYPE: PRT
195 <213> ORGANISM: Homo sapiens
197 <400> SEQUENCE: 12
198 Asp Arg Glu Leu Pro Ser Ser Ala Thr Glu Ser Asp Gly Ser Pro Val
199 1          5          10          15
200 Pro Ser Ser Gln Pro Ala Phe Pro Val Gln Ile Leu Pro Tyr Leu Tyr
201          20          25          30
202 Leu Gly Cys Ala Lys Asp Ser Thr Asn Leu Asp Val Leu Gly Lys Tyr
203          35          40          45
204 Gly Ile Lys Tyr Ile Leu Asn Val Thr Pro Asn Leu Pro Asn Ala Phe
205          50          55          60
206 Glu His Gly Gly Glu Phe Thr Tyr Lys Gln Ile Pro Ile Ser Asp His
207 65          70          75          80
208 Trp Ser Gln Asn Leu Ser Gln Phe Phe Pro Glu Ala Ile Ser Phe Ile
209          85          90          95
210 Asp Glu Ala Arg Ser Lys Lys Cys Gly Val Leu Val His Cys Leu Ala
211          100          105          110
212 Gly Ile Ser Arg Ser Val Thr Val Thr Val Ala Tyr Leu Met Gln Lys
213          115          120          125
214 Met Asn Leu Ser Leu Asn Asp Ala Tyr Asp Phe Val Lys Arg Lys Lys
215          130          135          140
216 Ser Asn Ile Ser Pro Asn Phe Asn Phe Met Gly Gln Leu Leu Asp Phe
217 145          150          155          160
218 Glu Arg Thr Leu Gly Leu Ser Ser
219          165
221 <210> SEQ ID NO: 13
222 <211> LENGTH: 168
223 <212> TYPE: PRT
224 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 13
227 Pro Ala Gln Ala Leu Pro Pro Ala Gly Ala Glu Asn Ser Asn Ser Asp
228 1          5          10          15
229 Pro Arg Val Pro Ile Tyr Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
230          20          25          30
231 Tyr Leu Tyr Leu Gly Ser Cys Asn His Ser Ser Asp Leu Gln Gly Leu
232          35          40          45
233 Gln Ala Cys Gly Ile Thr Ala Val Leu Asn Val Ser Ala Ser Cys Pro
234          50          55          60
235 Asn His Phe Glu Gly Leu Phe His Tyr Lys Ser Ile Pro Val Glu Asp
236 65          70          75          80

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237 Asn Gln Met Val Glu Ile Ser Ala Trp Phe Gln Glu Ala Ile Ser Phe
238      85      90      95
239 Ile Asp Ser Val Lys Asn Ser Gly Gly Arg Val Leu Val His Cys Gln
240      100      105      110
241 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Ile Gln
242      115      120      125
243 Ser His Arg Val Arg Leu Asp Glu Ala Phe Asp Phe Val Lys Gln Arg
244      130      135      140
245 Arg Gly Val Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
246 145      150      155      160
247 Leu Glu Thr Gln Val Leu Cys His
248      165
250 <210> SEQ ID NO: 14
251 <211> LENGTH: 169
252 <212> TYPE: PRT
253 <213> ORGANISM: Homo sapiens
255 <400> SEQUENCE: 14
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258 Cys Ser Thr Pro Leu Tyr Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
259      20      25      30
260 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ser Arg Lys Asp Met Leu
261      35      40      45
262 Asp Ala Leu Gly Ile Thr Ala Leu Ile Asn Val Ser Ala Asn Cys Pro
263      50      55      60
264 Asn His Phe Glu Gly His Tyr Gln Tyr Lys Ser Ile Pro Val Glu Asp
265 65      70      75      80
266 Asn His Lys Ala Asp Ile Ser Ser Trp Phe Asn Glu Ala Ile Asp Phe
267      85      90      95
268 Ile Asp Ser Ile Lys Asn Ala Gly Gly Arg Val Phe Val His Cys Gln
269      100      105      110
270 Ala Gly Ile Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Arg
271      115      120      125
272 Thr Asn Arg Val Lys Leu Asp Glu Ala Phe Glu Phe Val Lys Gln Arg
273      130      135      140
274 Arg Ser Ile Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln
275 145      150      155      160
276 Phe Glu Ser Gln Val Leu Ala Pro His
277      165
279 <210> SEQ ID NO: 15
280 <211> LENGTH: 169
281 <212> TYPE: PRT
282 <213> ORGANISM: Homo sapiens
284 <400> SEQUENCE: 15
285 Pro Val Pro Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser
286 1      5      10      15
287 Cys Gly Thr Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro
288      20      25      30
289 Phe Leu Tyr Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu

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